



US Africa Command Joint Frequency Management Office



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The overall classification of
this briefing is



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OVERVIEW/AGENDA

- **AOR Map**
- **Assumptions**
- **C4 Systems Organizational Structure**
- **Joint Frequency Management Office Mission**
- **Capabilities and Automation/Tools we Use**
- **U.S. Africa Command Spectrum Challenges**
 - **Traditional Challenges**
 - **U.S. Africa Command Challenges**
- **Point of Contact Roster**





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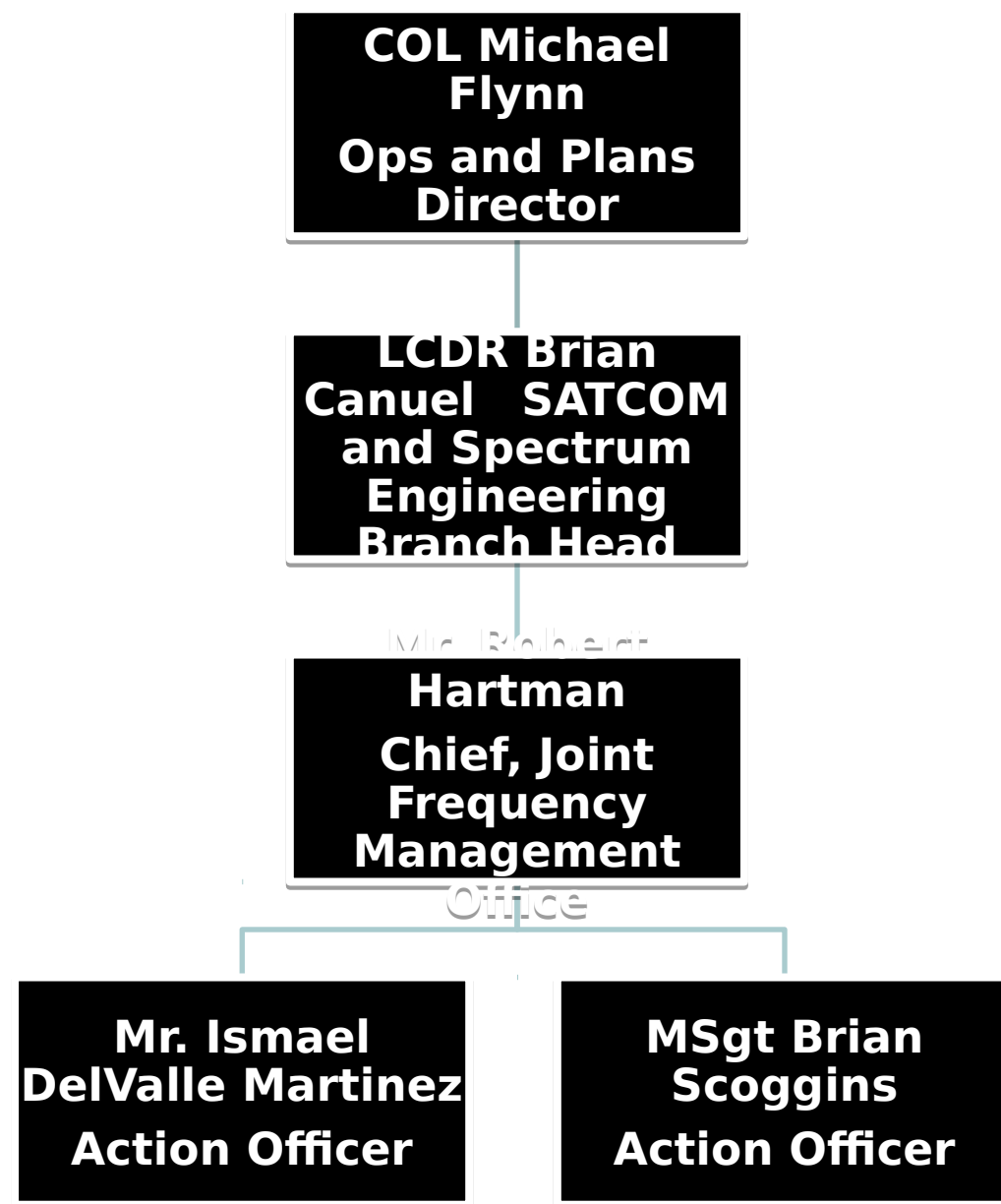
ASSUMPTIONS:

- **Spectrum Management does not operate in a bubble removed from operational communications. Spectrum Management is often an integral part of communications planning.**
 - **Spectrum Management supports communications which supports operations which in turn supports the Commander.**
- **Our priority is support to U.S. Africa Command and the mission. All else is secondary.**
- **Priorities and challenges are constantly evolving; therefore, all information presented is good for 30 seconds or 30 feet, which ever comes first.**



OPERATIONS DIVISION ORGANIZATIONAL CHART

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MISSION:

- **The C4 Systems Directorate (C4S) is responsible for spectrum management policy affecting U.S. Forces radio frequency use throughout the U. S. Africa Command Area of Responsibility (AOR). The Joint Frequency Management Office (JFMO-C4SYS), is responsible for the management of frequency spectrum issues for U.S. Africa Command.**
- **Provide policies, procedures for the proper processing of frequency requirements in support of all US/Coalition forces participating in Joint or combined operations in the U.S. Africa Command AOR.**
- **Prepare and coordinate for frequency supportability with host nations.**



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MISSION:

- **As directed or requested, serve as frequency managers for the U.S. Africa Command Joint Frequency Management Cell (JFMC) and deploy for contingency or exercise operations in this capacity.**
- **Develop the Joint Restricted Frequency List (JRFL) in coordination with Operations Cell/EWO. Maintain and publish the JRFL upon approval from the Operations Cell/EWO.**
- **Serve as the central repository for all JCEOI's in JTF AOR. Maintain database back ups for the deployed JTF frequency management cell.**
- **Plan and obtain frequency allotments, as required, in countries in support of contingency or exercise operations for US**



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MISSION:

- **U. S. AFRICOM focal point for all radio frequency supportability issues/papers. Responsible for maintenance of the J/F-12 database. Office of record for all finalized EC (AC?) papers.**
- **Represent U. S. Africa Command on matters concerning US military utilization of radio frequencies with Host Nation representatives of African nations.**
- **Provide technical advice to the spectrum management community, as required.**
- **Receive and submit remarks to frequency supportability documents, with releasability from the USMCEB FP.**
- **Maintain an up to date list of current Frequency Management Offices (FMOs) component's websites, and POC information.**



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SOFTWARE/AUTOMATION (THE TOOLS WE USE):

- **Spectrum XXI (SXXI)-US AFRICOM JFMO**
- **Joint Automated CEOI software (JACS)**
- **System Planning Engineering and Evaluation Device (SPEED)**
- **Frequency Assignment Retrieval System (FARS)**
- **Spectrum Certification Software (SCS)**
- ****Afloat Electromagnetic Spectrum Operations Program (AESOP)****
- **Host Nation Spectrum Worldwide Database Online (HNSWDO)**
- **Numerous web based accounts (AKO/DKO, NGA, JTIMS.....)**



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TRADITIONAL SPECTRUM CHALLENGES

- **Extensive usage and consequent congestion of the radio frequency spectrum dictates the need for comprehensive and coordinated management of this scarce resource. National and international frequency management organizations have been chartered to provide policies and procedures governing the use of the radio frequency spectrum.**
- **Spectrum Certification and Host Nation Coordination with National Allied Radio Frequency Agencies (NARFA) is paramount to gaining authority to operate. PACOM/EUCOM have extensive experience in this arena.**

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- **Military bands not aligned with U.S. military**



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US AFRICA COMMAND SPECTRUM CHALLENGES

- **Lack of military and civil communications equipment and infrastructure. Lack of national level telecommunications agencies or policy results in little to no active spectrum management. Only 75,000 to 80,000 registered ITU assignments.**
- **Spectrum Certification and Host Nation Coordination is conducted through the USDAO or country teams via email or message traffic.**
- **No formal procedure for host nation comments on DD 1494's**
- **No formal procedure for coordinating temporary frequency requests with host nation governments.**
- **Military bands not aligned with U.S. military bands. Convergence of military and civil**



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CURRENT ISSUES

- **African Endeavor 2010/Mil to Mil Engagements/Named Exercises**
- **Directives/Policy- Spectrum Management Directive recently signed. Spectrum Management Manual in draft**
- **Host Nation Coordination-Pending comments and new coordination efforts must shift to U.S. Africa Command. Distribution of J/F 12 coordination papers. GEMSIS version 3.3 will address this requirement.**
- **Assessment of component capabilities/training requirements.**



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CURRENT ISSUES

- **Lateral Coordination with geographically adjacent COCOMs.**
- **Development of formal doctrine and processes between the Components and the COCOM.**
- **Component manning**
- **Defining business practices**
- **CJTF-HOA**
 - **Defining the Electromagnetic Environment**
 - **Development of Operational CEOI**
 - **Expanding Role for CJTF-HOA Spectrum Manager**
 - **Billet Turnover**



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WAY AHEAD

- **Development of “kits” to support JTFs/ contingencies.**
- **Foster relationships with host nations to expedite the spectrum supportability process for coordination of equipment and assignments. Better Points of Contact.**
- **Build Master Net Lists (MNLs in JACS) and SFAF templates to support standing op plans and routine training scenarios.**
- **CJSMPT Fielding**
- **GEMISIS/MCEB Pub 8/ Data Standardization**



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WAY AHEAD CONT.

- **Consolidate and populate web portal with Command publications and directives, web links, and references.**
- **Build a repository of frequency usage data, operational communications plans, JCEOs, etc to capture historical data on spectrum usage by U.S. and coalition forces throughout the continent.**
- **Engagement with host nations for training, support and familiarization to raise awareness of spectrum management.**
- **Continuing development of spectrum management capabilities with US Africa Command and it's components. Desired end state is the best team in any COCOM.**



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???QUESTIONS???

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